# Project Euler #7: 10001st prime

This problem is a programming version of Problem 7 from projecteuler.net

By listing the first six prime numbers: 2,3,5,7,11 and 13, we can see that the  $6^{th}$  prime is 13. What is the N'th prime number?

#### **Input Format**

First line contains T that denotes the number of test cases. This is followed by T lines, each containing an integer, N.

## **Output Format**

Print the required answer for each test case.

#### **Constraints**

 $1 \le T \le 10^3$ 

 $1 \le N \le 10^4$ 

### **Sample Input**

2

# **Sample Output**

5 13